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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/587,424	09/27/2006	Fan Lu	55340-311395	8168		
23342 KII PATRICK	7590 12/15/2008 C STOCKTON LLP	EXAMINER				
1001 WEST F	OURTH STREET	GOUGH, TIFFA	GOUGH, TIFFANY MAUREEN			
WINSTON-SA	ALEM, NC 27101		ART UNIT	PAPER NUMBER		
			1657			
			MAIL DATE	DELIVERY MODE		
			12/15/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

#### Application No. Applicant(s) 10/587.424 LU ET AL. Office Action Summary Examiner Art Unit TIFFANY M. GOUGH 1657 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

- If NO - Failu Any	Denote the control of
Status	
1)🛛	Responsive to communication(s) filed on 31 July 2008.
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
4)⊠	Claim(s) <u>1-50</u> is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)□	Claim(s) is/are rejected.
7)	Claim(s) is/are objected to.
8)🖂	Claim(s) 1-50 are subject to restriction and/or election requirement.

Application Papers	
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9) <u></u> The	spe	cific	at	io	n i	s o	bjected	to	by	the	Examine	r.

10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

# Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-	d) or (f).
a) All b) Some * c) None of:	

- Certified copies of the priority documents have been received.
- 2. Certified copies of the priority documents have been received in Application No.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

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ı	Attachment(s)	
ı	A) Nation of Botomana Cited (BTO 2003)	4) D Intensions Com

f References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date \_

4) L	Interview Summary (PTO-413)
	Paper No(s)/Mail Date
5)	Notice of Informal Patent Application
6)	Other:

Page 2

Application/Control Number: 10/587,424

Art Unit: 1657

### DETAILED ACTION

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5, drawn to a culture of cyanobacterium from Nostoc.

Group II, claim(s) 6-8, drawn to a method of producing a culture.

Group III, claim(s) 9-21, drawn to a cultivation method.

Group IV, claim(s) 22-26, drawn to a composition.

Group V, claim(s) 27-35, drawn to a pharmaceutical composition.

Group VI. claim(s) 36-39, drawn to a cyanobacterial growing medium.

Group VII, claim(s) 40, drawn to a bioreactor.

Group VIII, claim(s) 41-44, drawn to a food product.

Group IX, claim(s) 45-46, drawn to a method for enhancing health.

Group X, claim(s) 47-50, drawn to a dietary supplement.

The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the culture of cyanobacterium from Nostoc is known in the art, for example, see Scherer et al., Journal of Biological Chemistry, vol.264, 1989.

Application/Control Number: 10/587,424

Art Unit: 1657

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Medicines in claims 34 and 35.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. For example, if applicant elects Group V, a species from each 34 and 35 must be elected.

Therefore, applicant is required to elect a medicine from each claim 34 and 35.

The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

If applicant elects Group V, a species from each 34 and 35 must be elected.

The following claim(s) are generic: 34 and 35.

Application/Control Number: 10/587,424

Art Unit: 1657

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: these medicines are known in the art to be useful in treating their related disorders. For example, Arthrotec is a known anti-inflammatory medicine. See http://www.medilexicon.com/drugs/arthrotec.php.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

Application/Control Number: 10/587,424

Art Unit: 1657

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIFFANY M. GOUGH whose telephone number is (571)272-0697. The examiner can normally be reached on M-F 8-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/587,424 Page 6

Art Unit: 1657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ralph Gitomer/ Primary Examiner, Art Unit 1657

/Tiffany M Gough/ Examiner, Art Unit 1657